



Features

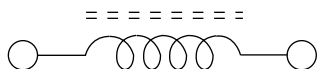
- Shielded construction
- Metal alloy powder core
- High saturation current
- Inductance range 0.33 to 10 μ H
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRP5020TA Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		Q (Min.) @ 100 kHz / 1 V	SRF (MHz) Typ.	DCR (m Ω) Typ.	DCR (m Ω) Max.	Irms (A) Typ.	Isat (A) Typ.	Terminal Type
	L (μ H)	Tol. (%)							
SRP5020TA-R33M	0.33	20	10	117	6.3	7.3	12	21.3	Lead Frame
SRP5020TA-R47M	0.47	20	11	100	7.3	8.6	11.5	18	Lead Frame
SRP5020TA-R68M	0.68	20	12	90	11	12.4	10	12.8	Lead Frame
SRP5020TA-1R0M	1.00	20	13	64	17.5	20	7	13.7	Lead Frame
SRP5020TA-1R2M	1.20	20	14	58	23	28	6.2	11	Lead Frame
SRP5020TA-1R5M	1.50	20	15	52	26.5	30.5	5.5	9.8	Lead Frame
SRP5020TA-2R2M	2.20	20	16	38	42	50	4.2	9	Lead Frame
SRP5020TA-3R3M	3.30	20	17	35	66	76	3.3	7.3	Lead Frame
SRP5020TA-4R7M	4.70	20	18	30	103	116	2.8	5	Lead Frame
SRP5020TA-5R6M	5.60	20	19	25	112	122	2.5	4	Lead Frame
SRP5020TA-6R8M	6.80	20	20	23	130	150	2.4	3.8	Lead Frame
SRP5020TA-8R2M	8.20	20	21	20	148	171	2.3	3.5	Lead Frame
SRP5020TA-100M	10	20	22	18	180	199	2.3	3.4	Lead Frame

Electrical Schematic

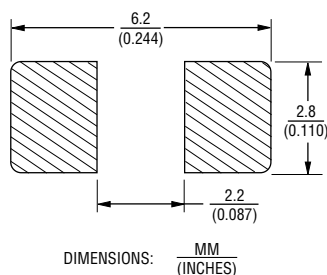


How to Order

SRP5020TA - 100M

Model _____
Value Code (see table) _____

Recommended Layout



Additional Information

Click these links for more information:



General Specifications

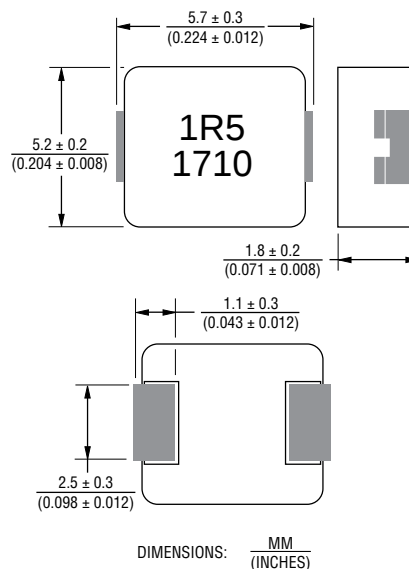
Operating Temperature
..... -55 °C to +150 °C
(Temperature rise included)
Storage Temperature (Component)
..... -55 °C to +150 °C
Rated Current
..... Inductance drops 20 % at Isat
Temperature Rise 40 °C at rated Irms¹
Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... N/A

Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core..... Metal alloy powder
Wire Enameled copper
Terminal Finish Sn
Packaging..... 3000 pcs. per 13-inch reel

Product Dimensions



BOURNS®

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Email: americus@bourns.com

Mexico: Tel: +52-614-478-0400

Email: mexicus@bourns.com

Asia: Tel: +886-2-2562-4117

Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877

Email: eurocus@bourns.com

www.bourns.com



WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

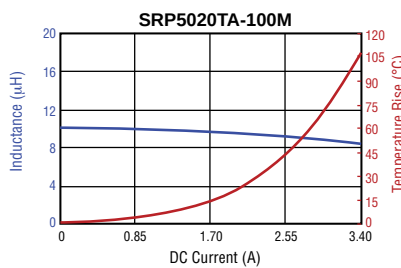
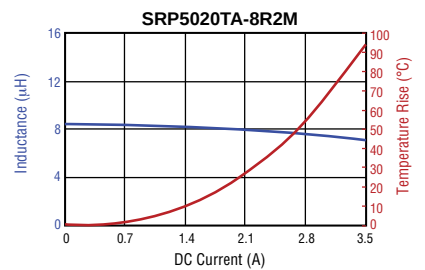
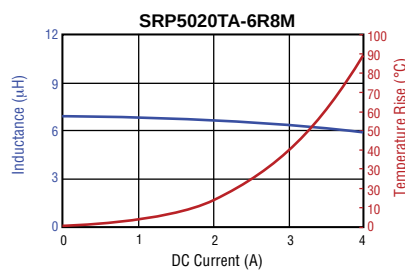
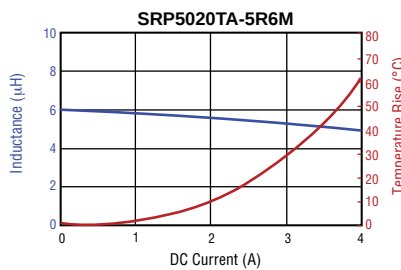
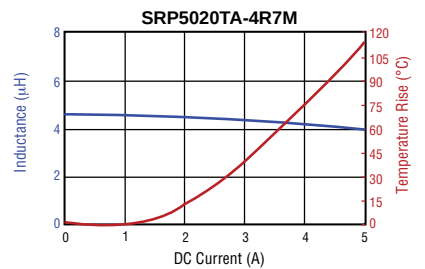
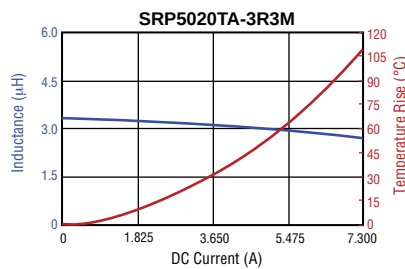
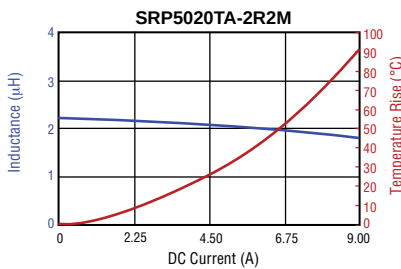
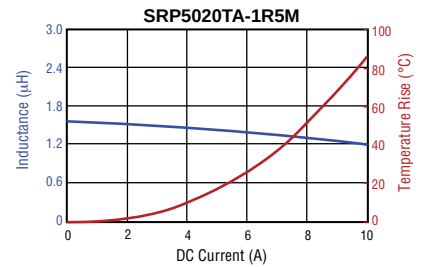
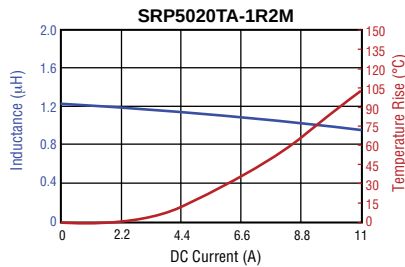
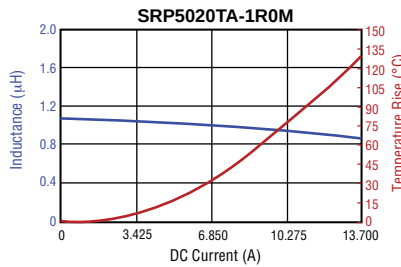
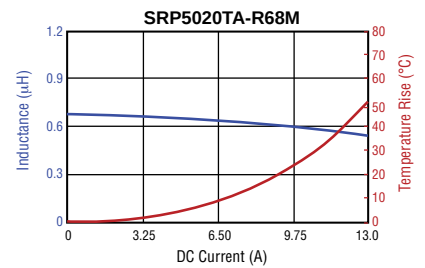
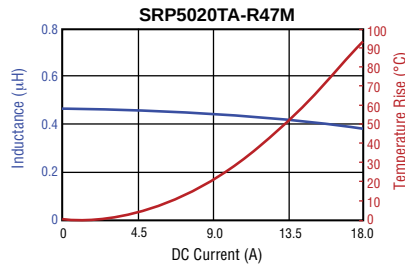
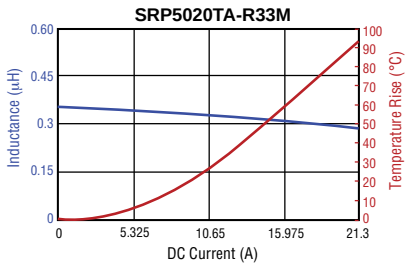
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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SRP5020TA Series – Shielded Power Inductors

BOURNS®

L vs. I Charts



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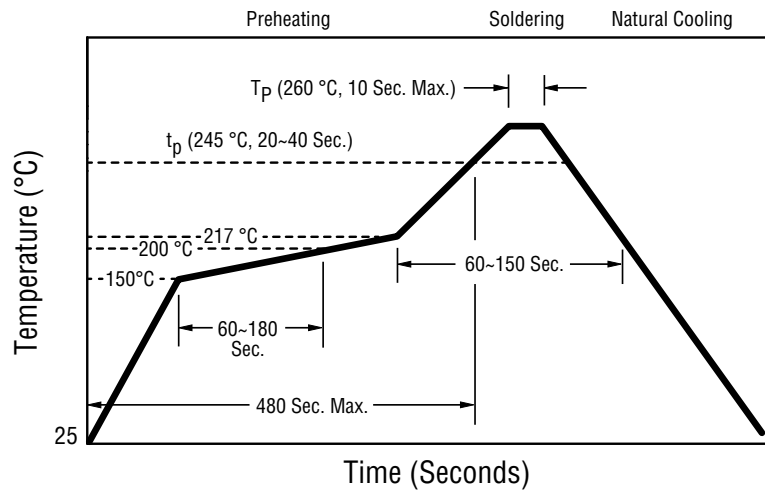
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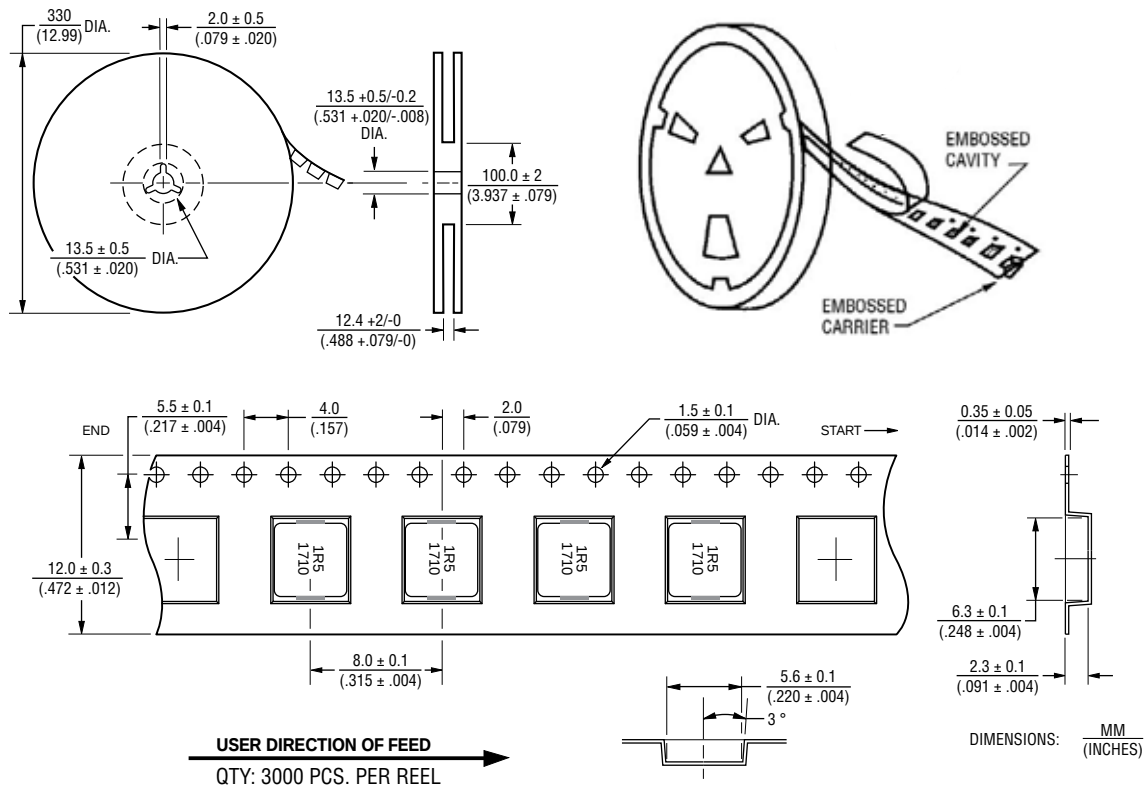
SRP5020TA Series – Shielded Power Inductors

BOURNS®

Soldering Profile



Packaging Specifications



REV. 06/24

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